

# ASCAT DAILY Report

**Metop-B**

**OPE**

**DAY 2014\_349**

**20141215000000 - 20141215235959**

## DATA STATISTICS

BASED ON ORBITS (#11)

11625 11626 11627 11628 11629 11630 11631 11632 11633 11634 11635 11636

DB STATISTICS : OPE M01\_20141215

xxx 141 10.65 .67 9.38 13.24

INGATE (STORE) STATISTICS : OPE M01\_20141215

xxx\_1A /fbf/tcdras/store/gs1/ASCA\_xxx\_1A\_M01 -- number of files (xxx\_1A) : 478  
SZO\_1B /fbf/tcdras/store/gs1/ASCA\_SZO\_1B\_M01 -- number of files (SZO\_1B) : 478  
SZR\_1B /fbf/tcdras/store/gs1/ASCA\_SZR\_1B\_M01 -- number of files (SZR\_1B) : 478  
SZF\_1B /fbf/tcdras/store/gs1/ASCA\_SZF\_1B\_M01 -- number of files (SZF\_1B) : 478  
SMO\_02 /fbf/tcdras/store/gs1/ASCA\_SMO\_02\_M01 -- number of files (SMO\_02) : 478  
SMR\_02 /fbf/tcdras/store/gs1/ASCA\_SMR\_02\_M01 -- number of files (SMR\_02) : 478

DB detailed listing : OPE M01\_20141215

3426506 xxx ASCA\_xxx\_1A\_M01\_20141215000300Z\_20141215000559Z\_N\_0\_20141215005745Z 9.913 2014-12-15 19:27:17

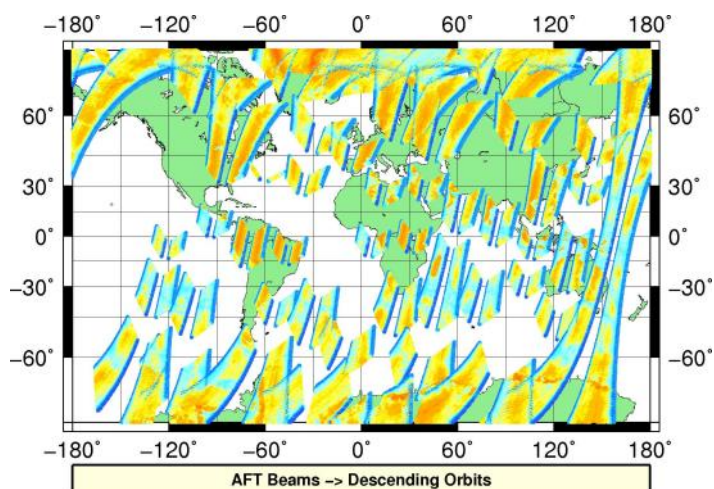
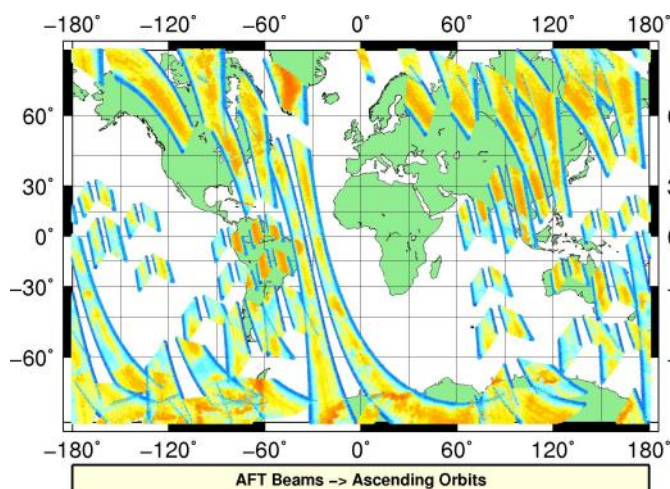
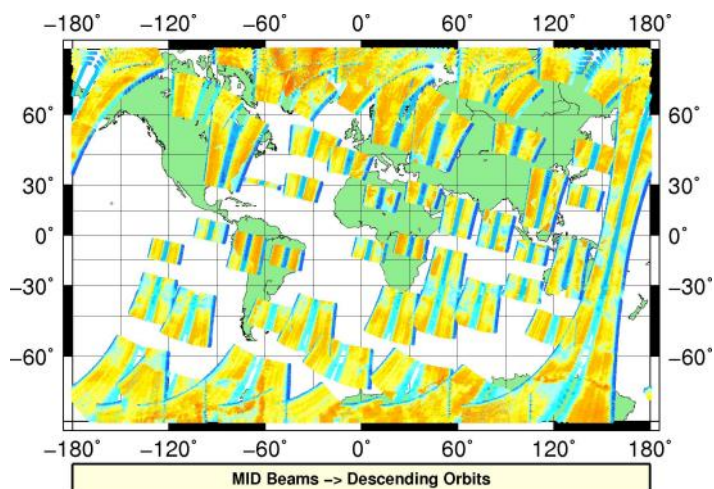
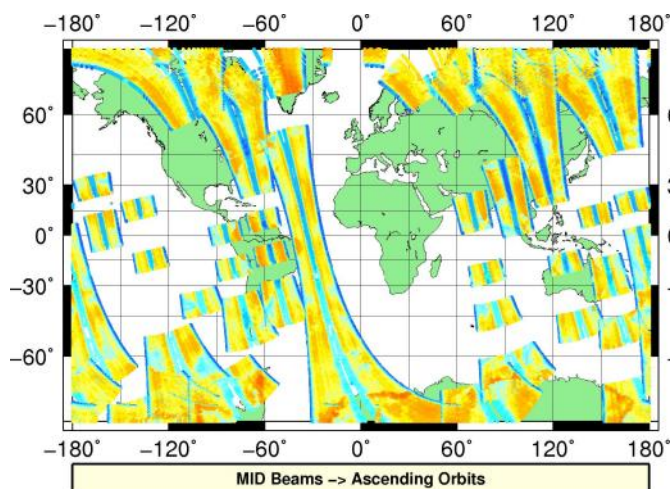
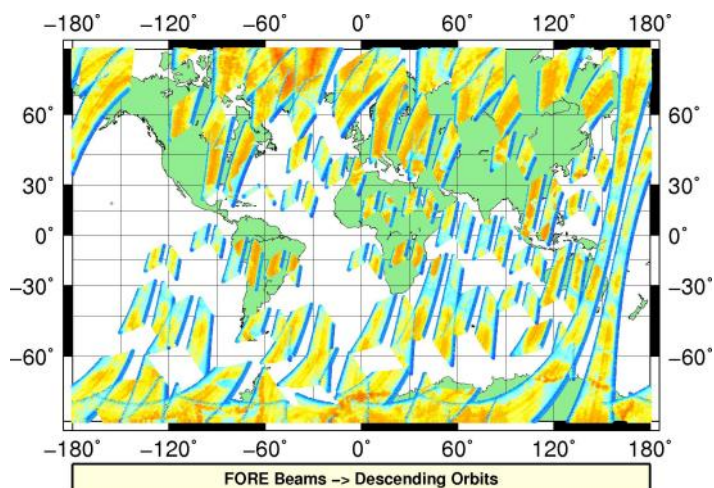
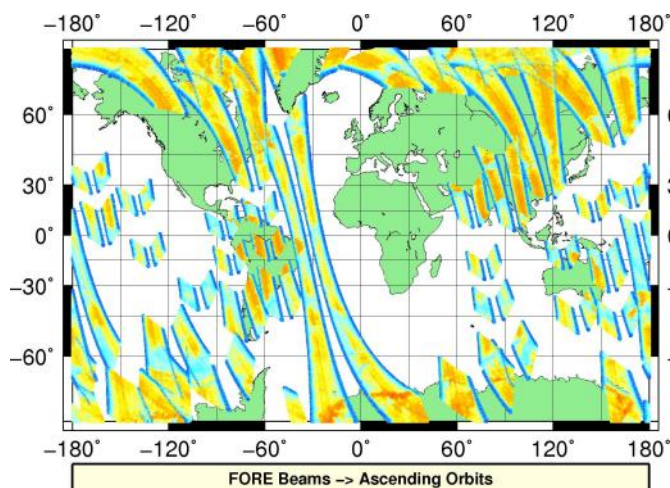
# Overview

## Configuration and SPHR content

| Parameter                | Value                                                         |
|--------------------------|---------------------------------------------------------------|
| SENSING START-STOP       | 20141215000000 - 20141215235959                               |
| ORBIT START-STOP         | -                                                             |
| SATELLITE                | M01                                                           |
| SW - DPU Version         | 3.9 (57)                                                      |
| SW - ICU Version         | 2.03 (35)                                                     |
| PARAM - Drive Level ID   | 0 (Nominal drive level as defined in the active DPU Data Set) |
| PARAM - DPU Data Set ID  | 2                                                             |
| PARAM - Revision ID      | 14                                                            |
| INST - Table Set ID      | 0 (no calibration, nominal table set used)                    |
| INST - Redundancy Config | 127                                                           |
|                          | nominal ICU                                                   |
|                          | nominal DPU                                                   |
|                          | nominal RFU                                                   |
|                          | nominal HPA                                                   |
|                          | nominal SFE                                                   |
|                          | nominal SFE LNA                                               |
|                          | nominal signal path (from HPA_B)                              |
| N_L1A_MDR                | 179097                                                        |
| N_L1A_MDR_B0             | 29852                                                         |
| N_L1A_MDR_B1             | 29853                                                         |
| N_L1A_MDR_B2             | 29853                                                         |
| N_L1A_MDR_B3             | 29847                                                         |
| N_L1A_MDR_B4             | 29847                                                         |
| N_L1A_MDR_B5             | 29845                                                         |
| N_GAPS                   | 12                                                            |
| TOTAL_GAPS_SIZE          | 4670050                                                       |
| N_HKTM_PACKETS_RECEIVED  | 4689                                                          |
| N_F_NOISE                | 0                                                             |
| N_F_PG                   | 0                                                             |
| N_V_PG                   | 0                                                             |
| N_F_FILTER               | 0                                                             |
| N_V_FILTER               | 0                                                             |
| N_F_PGP                  | 0                                                             |
| N_F_NP                   | 0                                                             |
| N_F_ORBIT                | 0                                                             |
| N_F_ATTITUDE             | 0                                                             |
| N_F_OMEGA                | 0                                                             |
| N_F_MAN                  | 0                                                             |
| N_F_OSV                  | 0                                                             |
| N_F_E_TEL_PRES           | 0                                                             |
| N_F_E_TEL_IR             | 0                                                             |
| N_F_CE                   | 0                                                             |
| N_V_CE                   | 0                                                             |
| N_F_OA                   | 0                                                             |
| N_F_TEL                  | 0                                                             |
| N_F_REF                  | 0                                                             |
| N_F_SA                   | 336543                                                        |
| N_F_LAND                 | 15492778                                                      |
| N_F_GEO                  | 973861                                                        |
| N_F_SIGN                 | 0                                                             |
| N_L1B_MDR                | 0                                                             |
| N_EMPTY_S0_TRIP          | 0                                                             |
| N_L1B_MDR_F              | 0                                                             |
| N_EMPTY_S0_TRIP_F        | 0                                                             |
| N_L1B_MDR_M              | 0                                                             |

# L1A Product

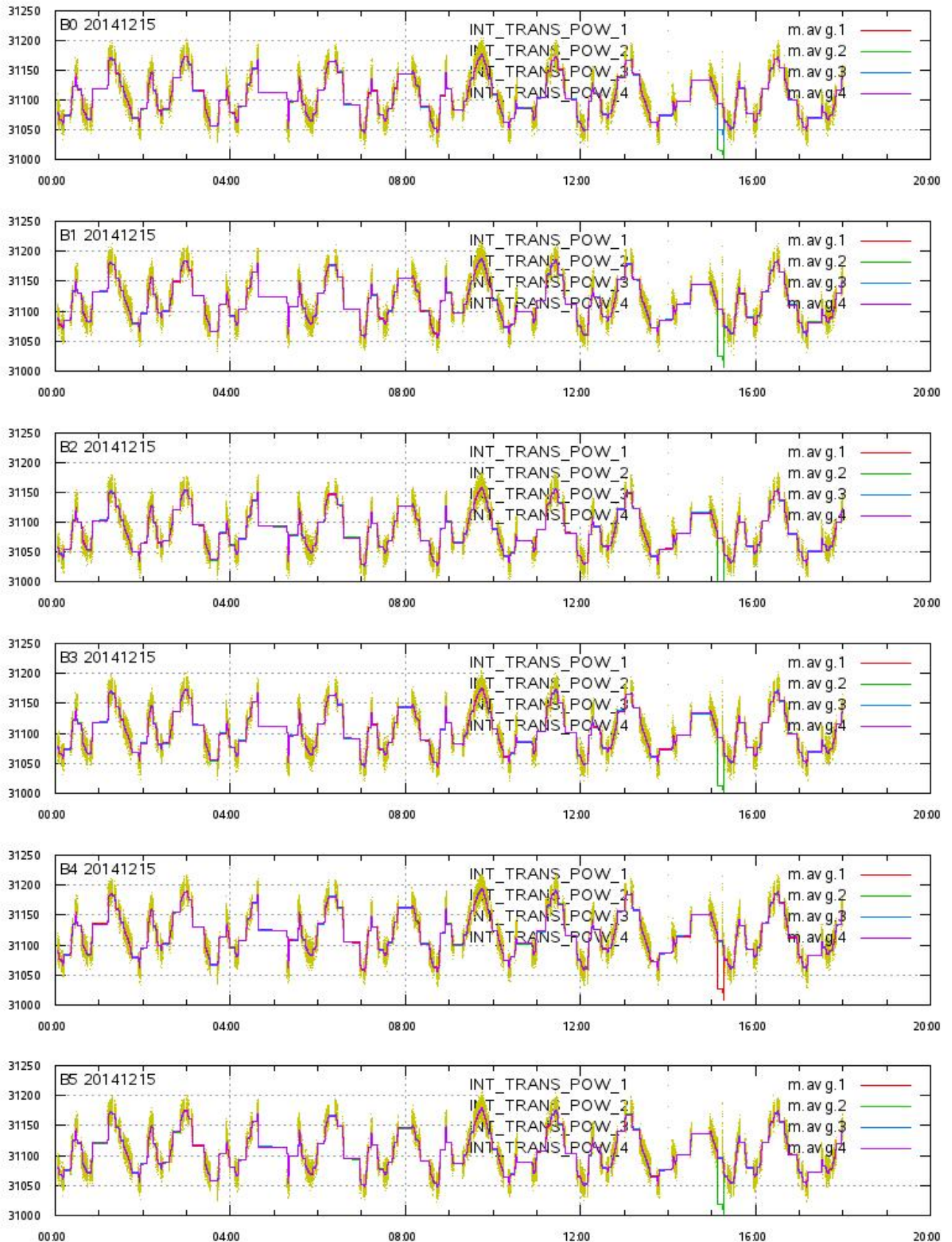
## Echo Data Coverage maps





## L1A Product

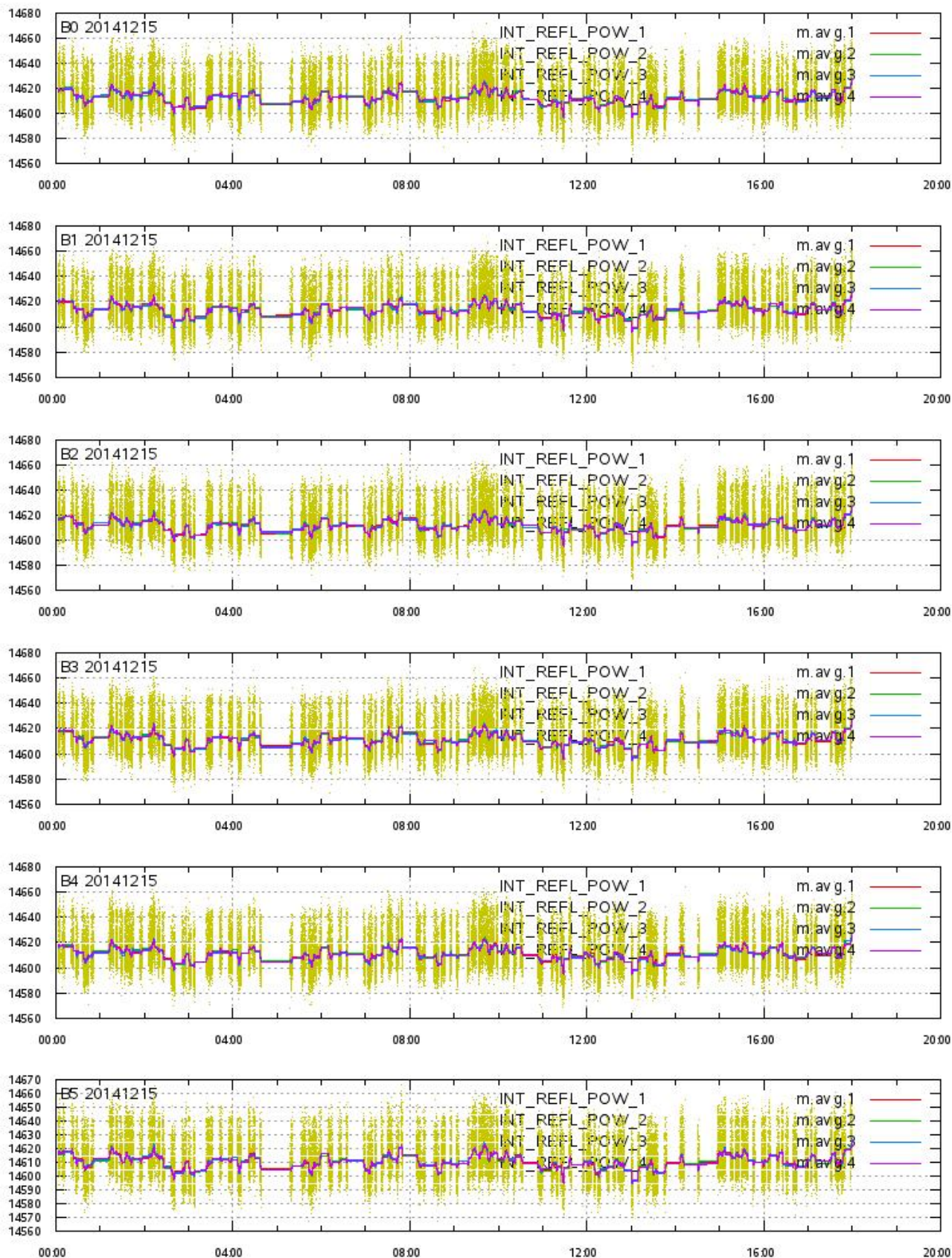
Integrated Transmitted Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION





## L1A Product

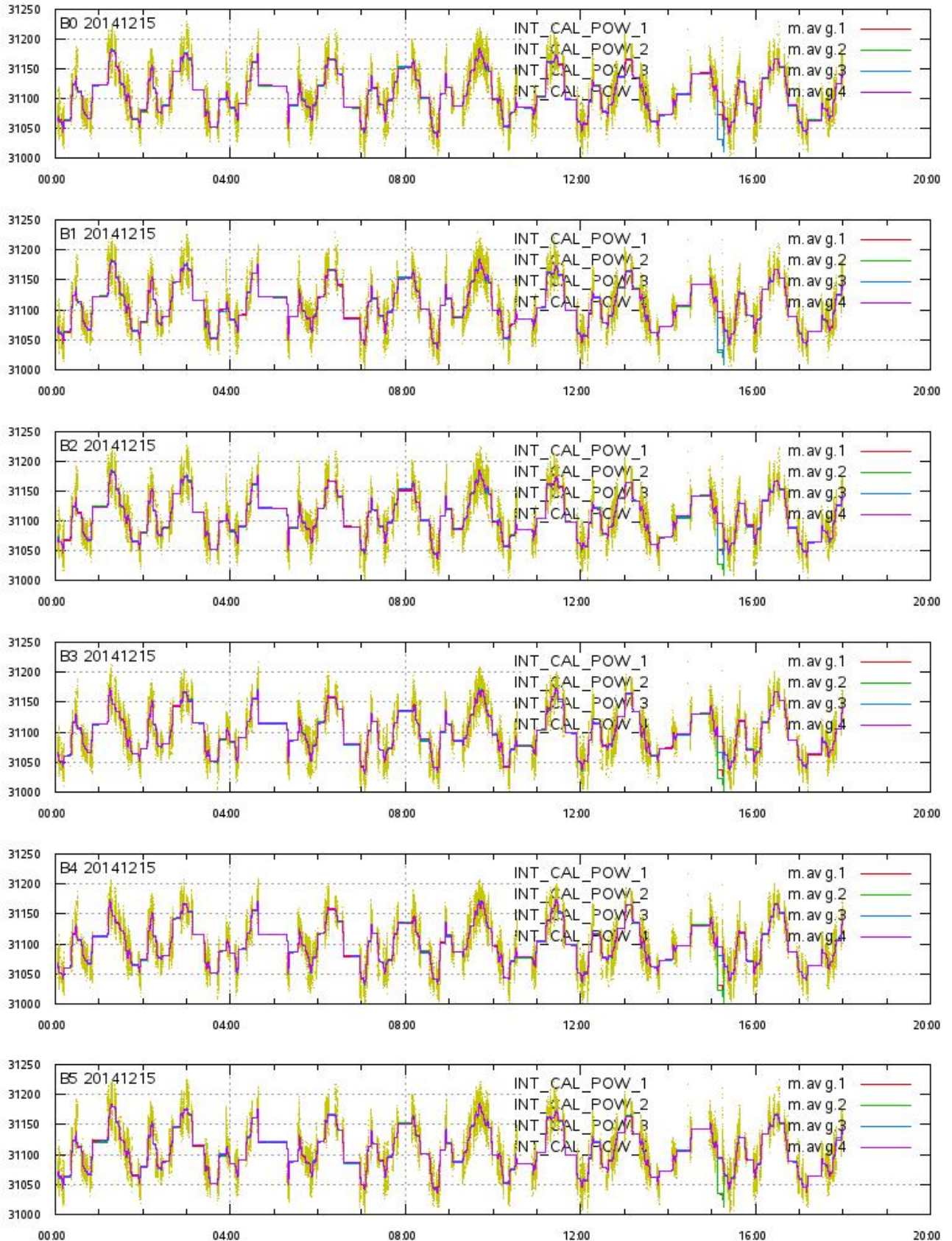
Integrated Reflected Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION





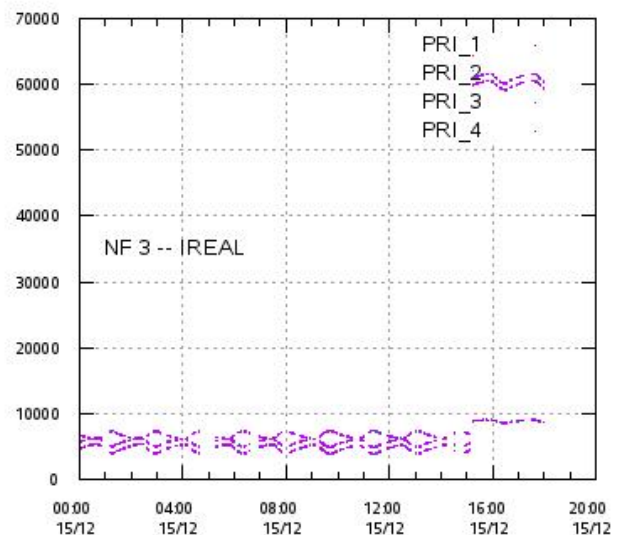
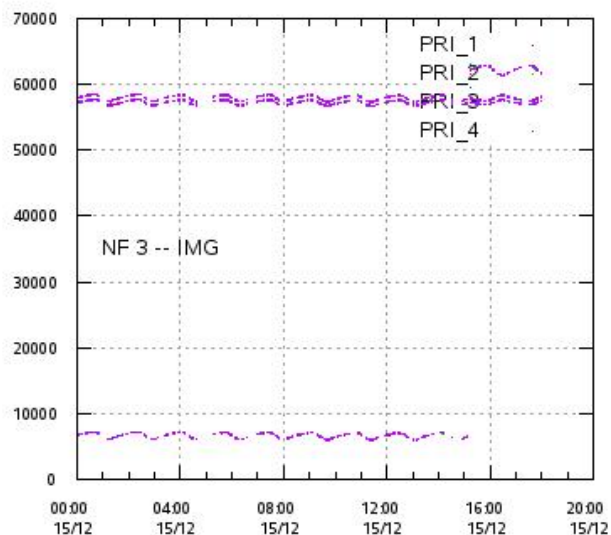
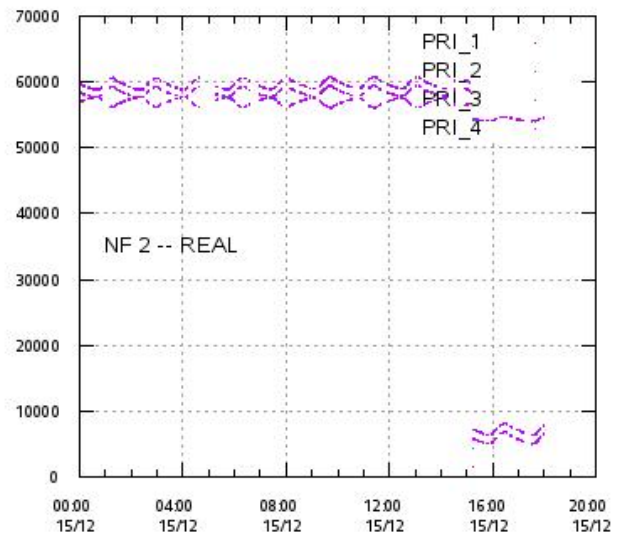
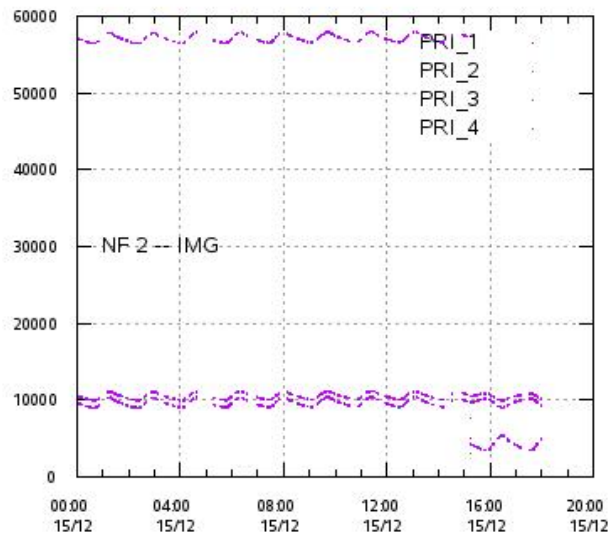
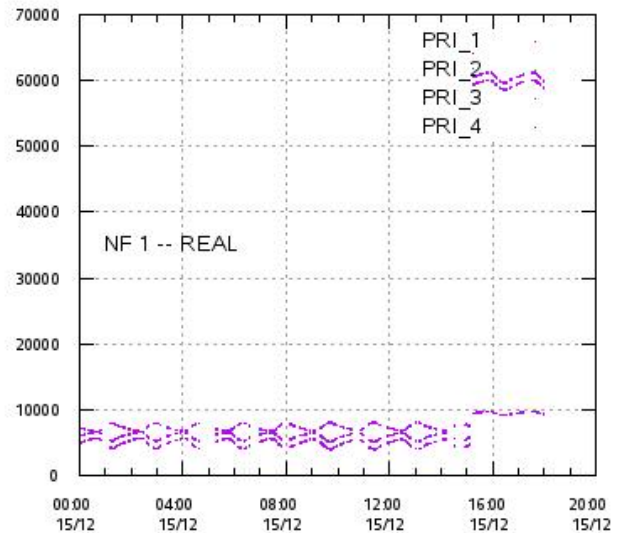
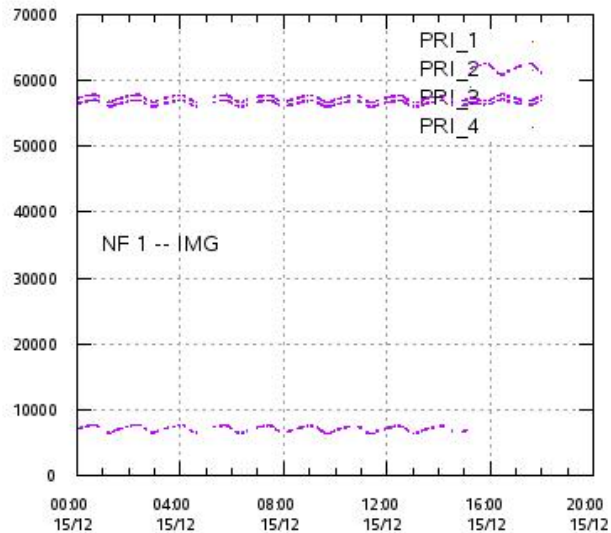
## L1A Product

Integrated Calibration Powers 1-4 per beam 0-5 vs. UTC\_LOCALISATION



## L1A Product

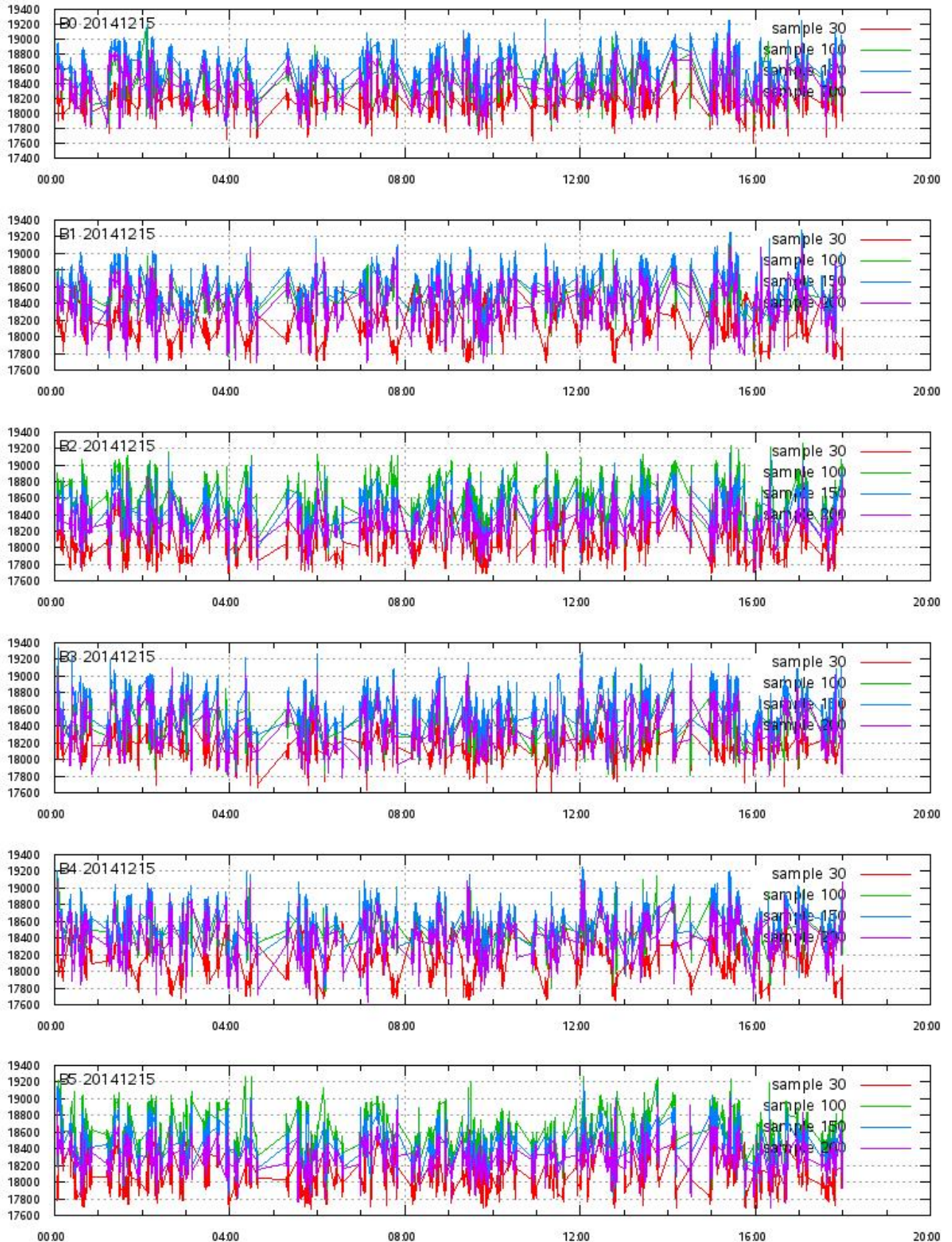
### Calibration Powers vs. UTC\_LOCALISATION





## L1A Product

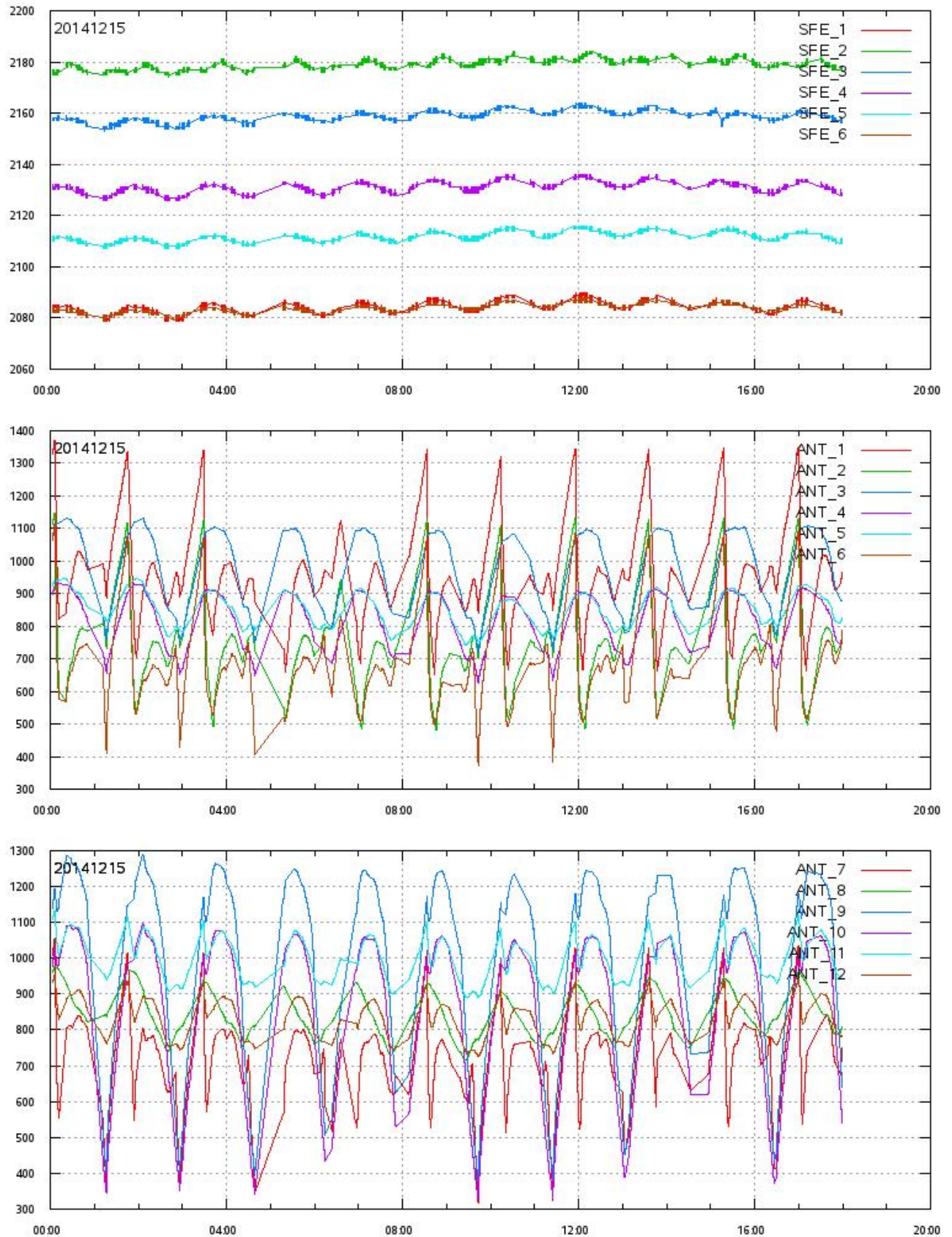
ECHO DATA (raw) for samples 30, 100, 150 and 200 vs. UTC\_LOCALISATION





## L1A Product

SFE & ANT Temperatures (raw) vs. UTC\_LOCALISATION

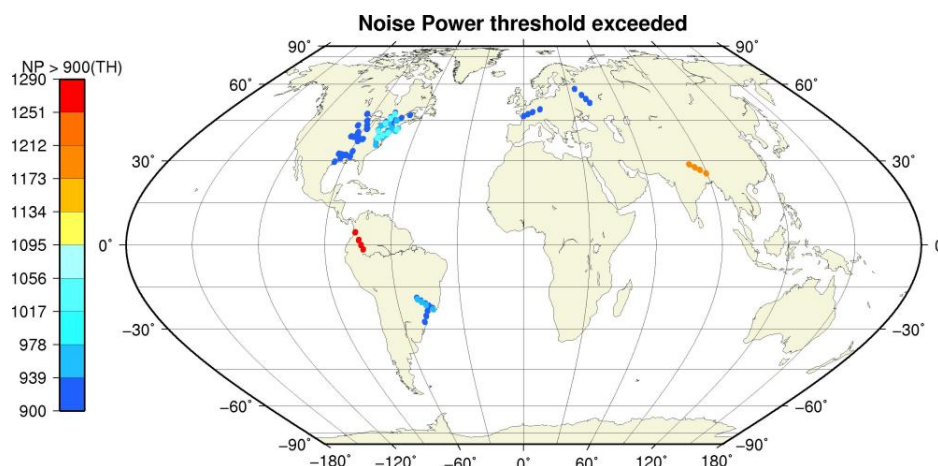
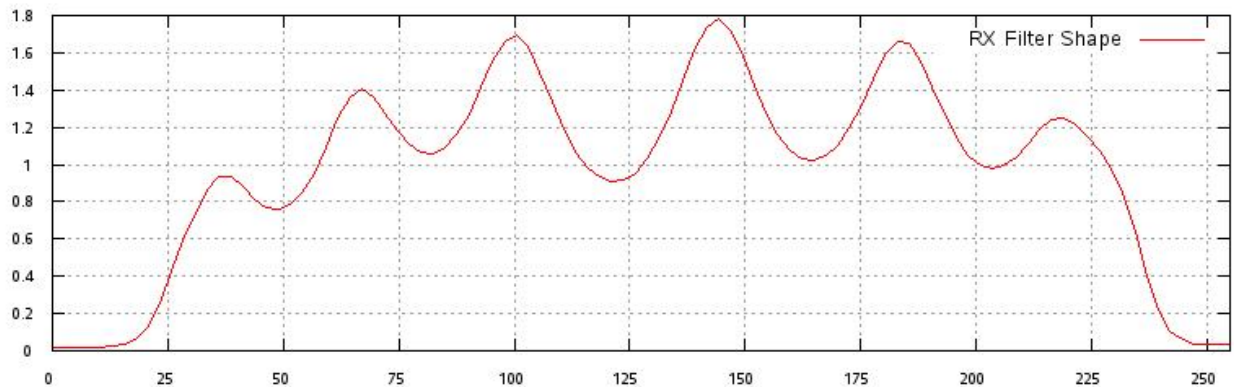
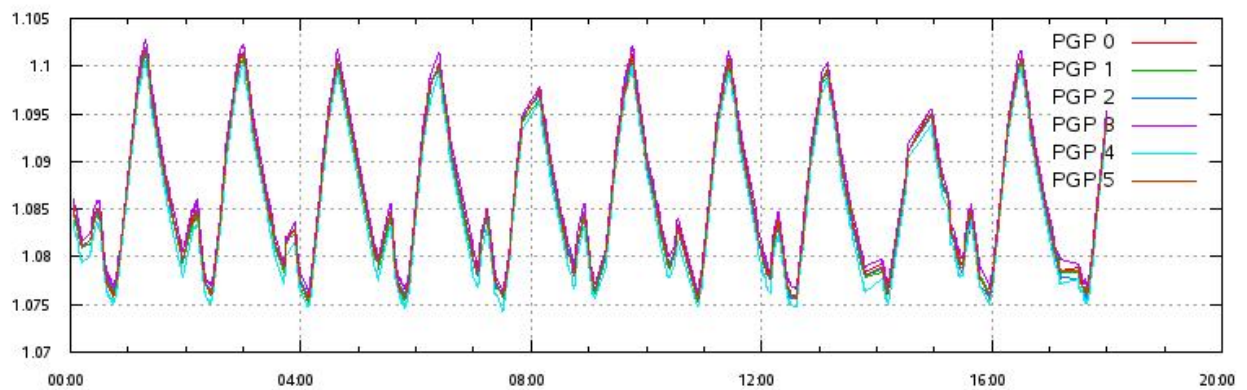
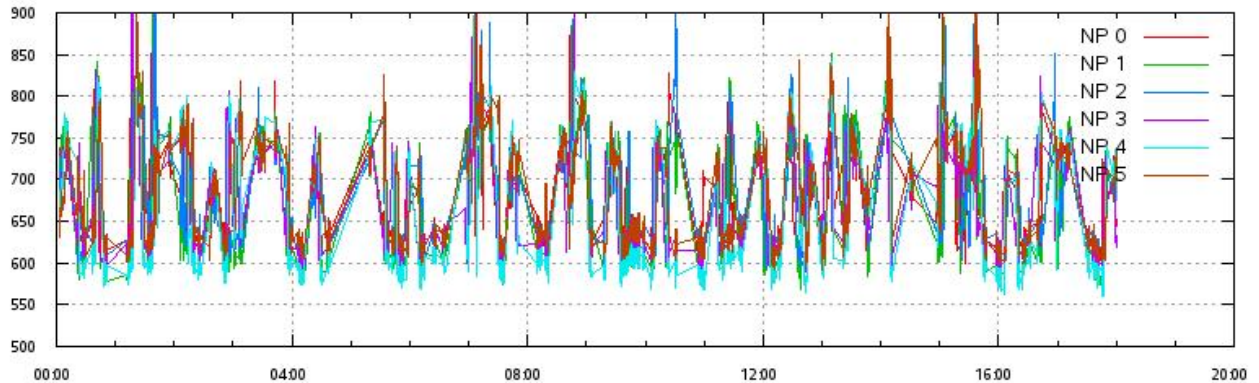


## L1A Product

Noise Power & Power Gain Product per beam 0-5 vs. UTC\_LOCALISATION

RX Filter Shape average over sample number

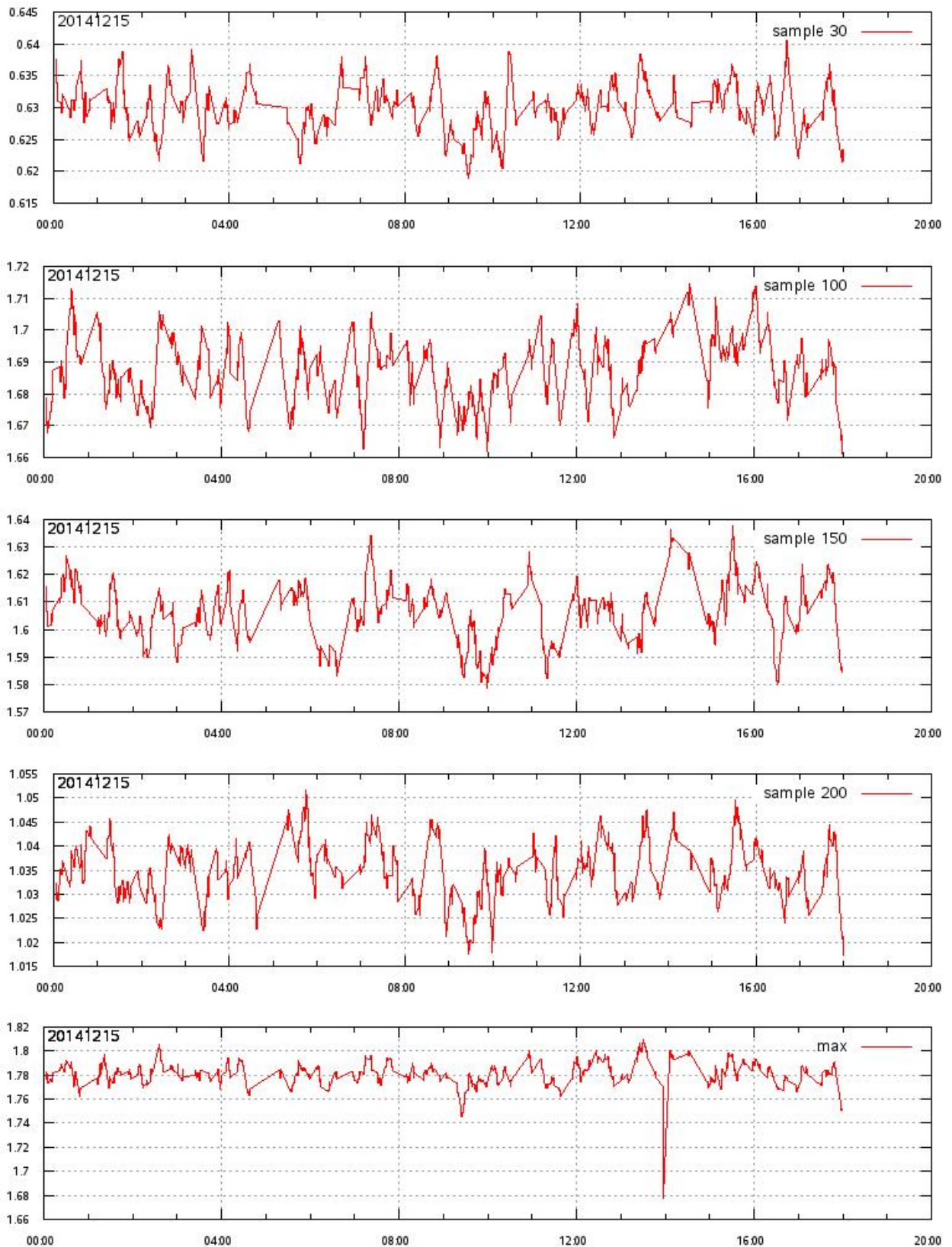
Noise Power threshold exceeded (TH=900) on map





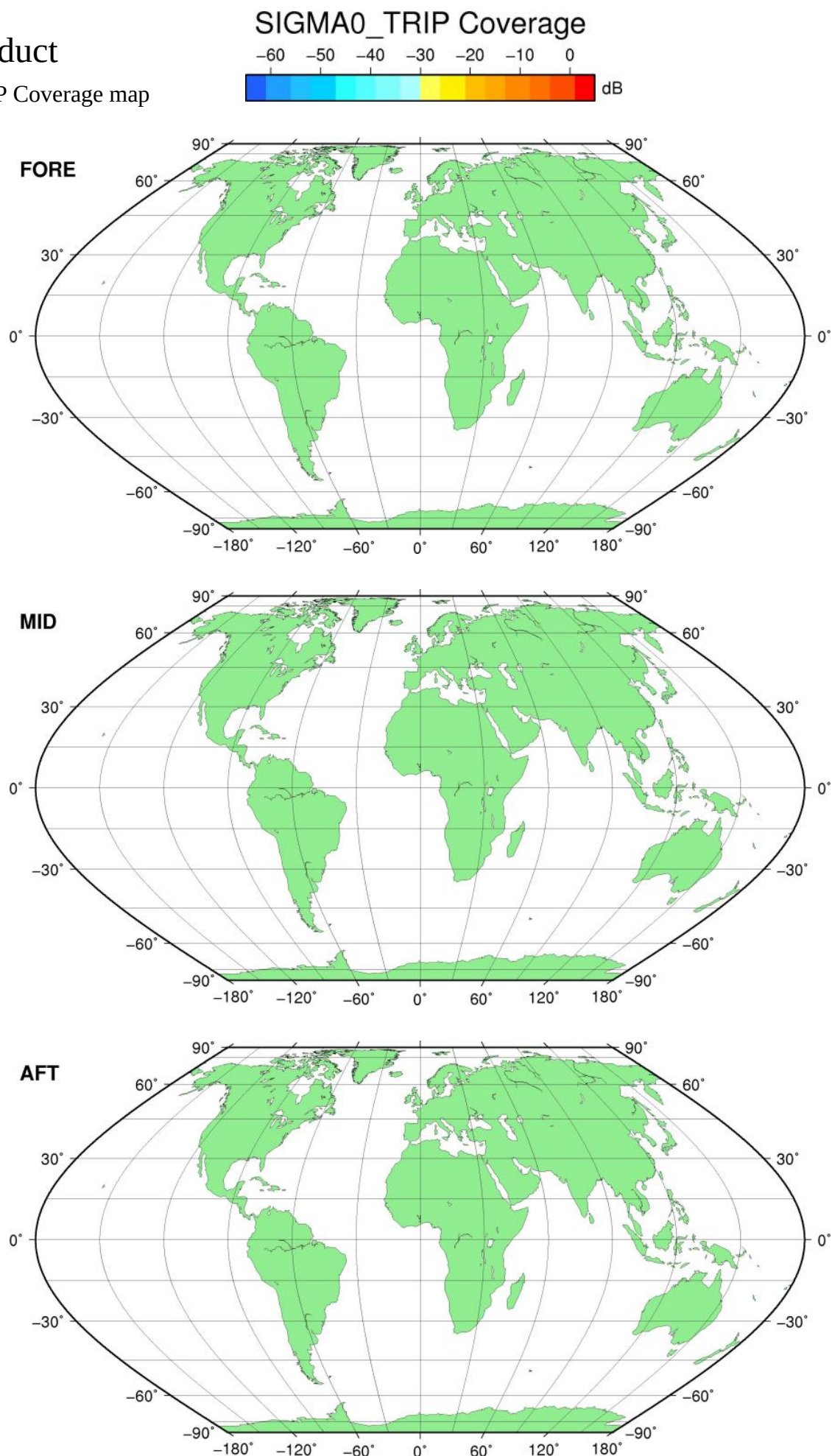
## L1A Product

RX filter shape in detail for sample 30,100,150, 200 & max vs. UTC\_LOCALISATION



## SZO Product

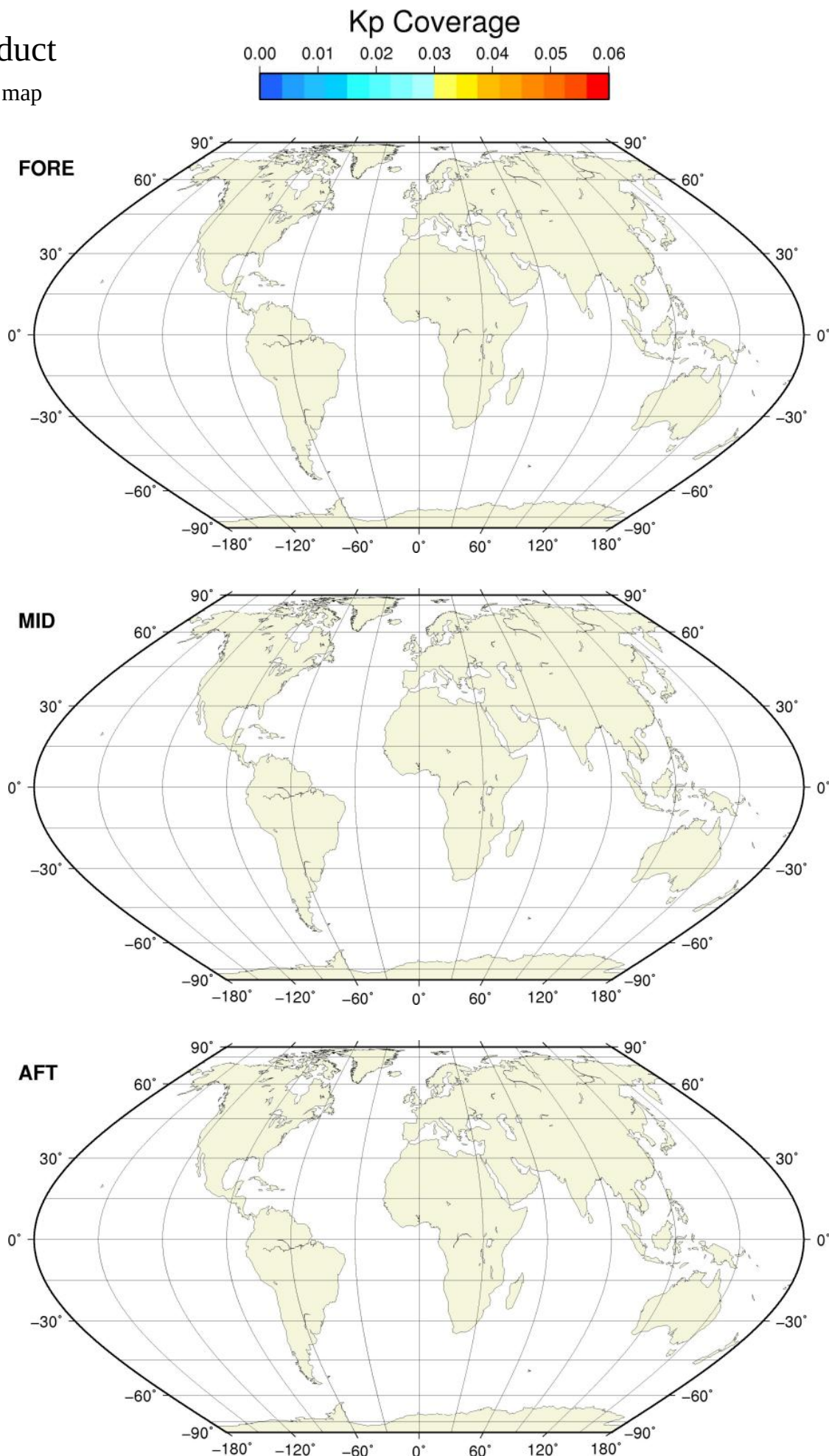
Sigma0\_TRIP Coverage map





## SZO Product

Kp Coverage map



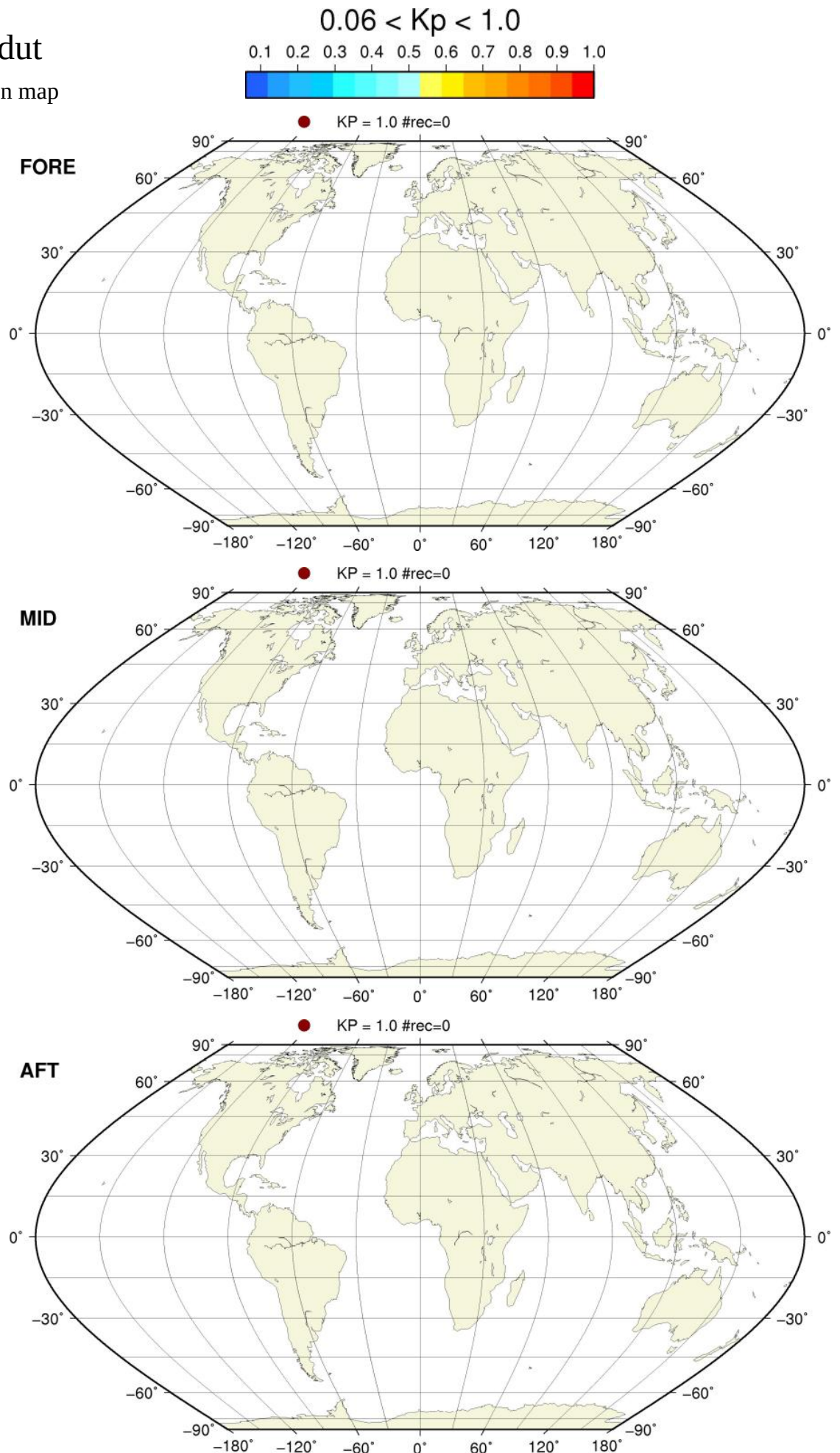
## SZO Product

### S0 - Kp Statistics



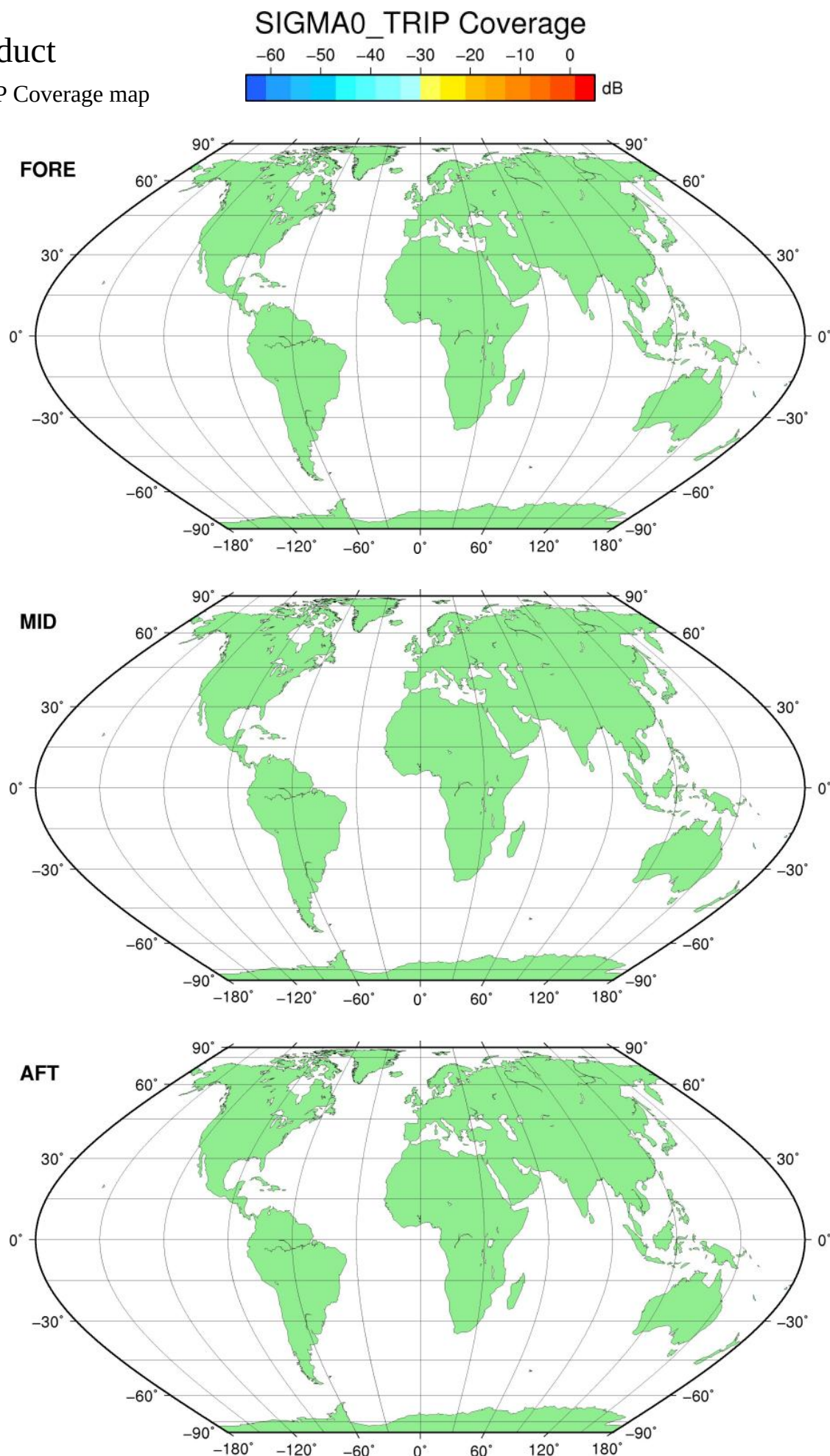
## SZO Product

Kp Outliers on map



## SZR Product

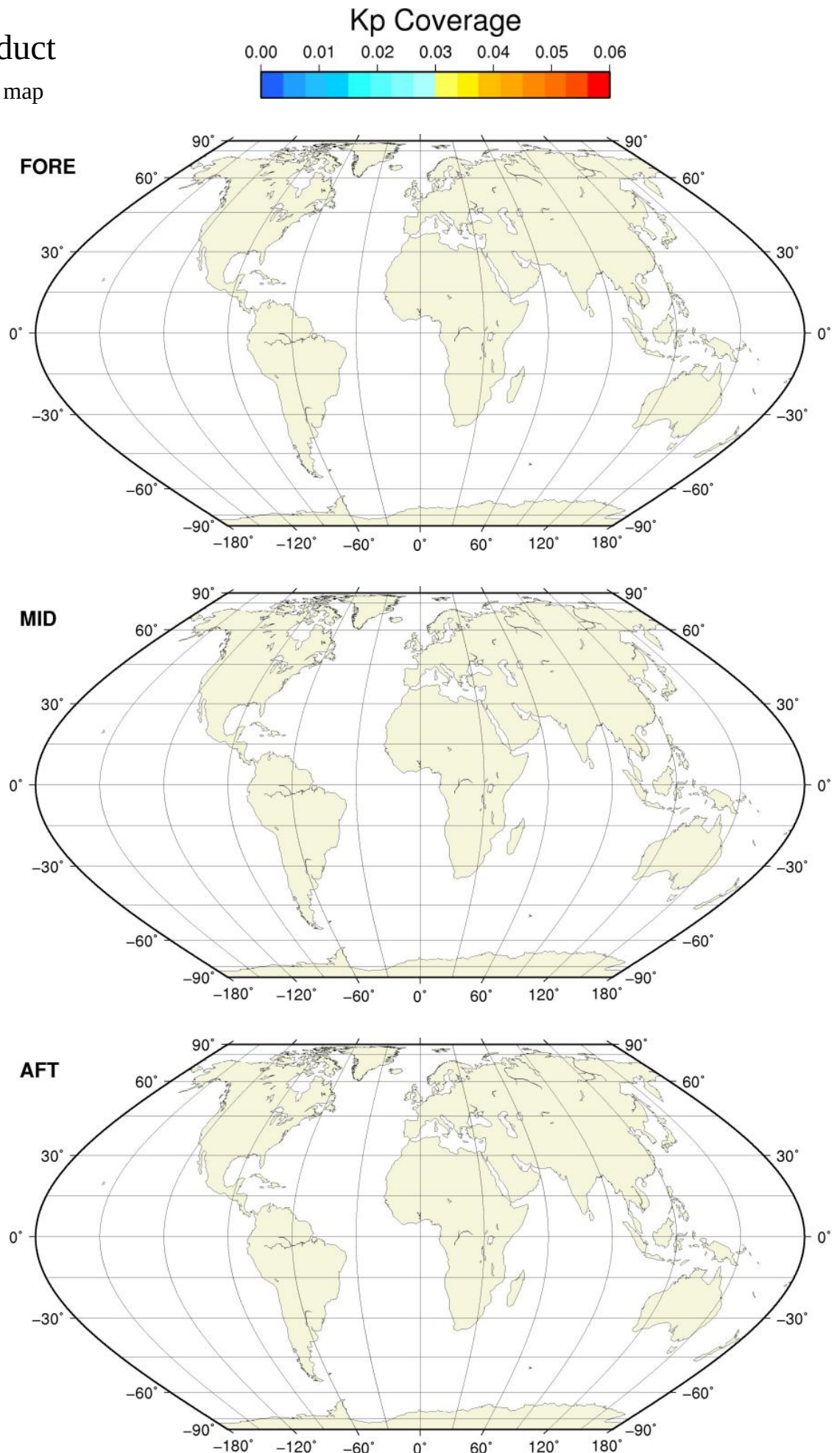
Sigma0\_TRIP Coverage map





## SZR Product

Kp Coverage map



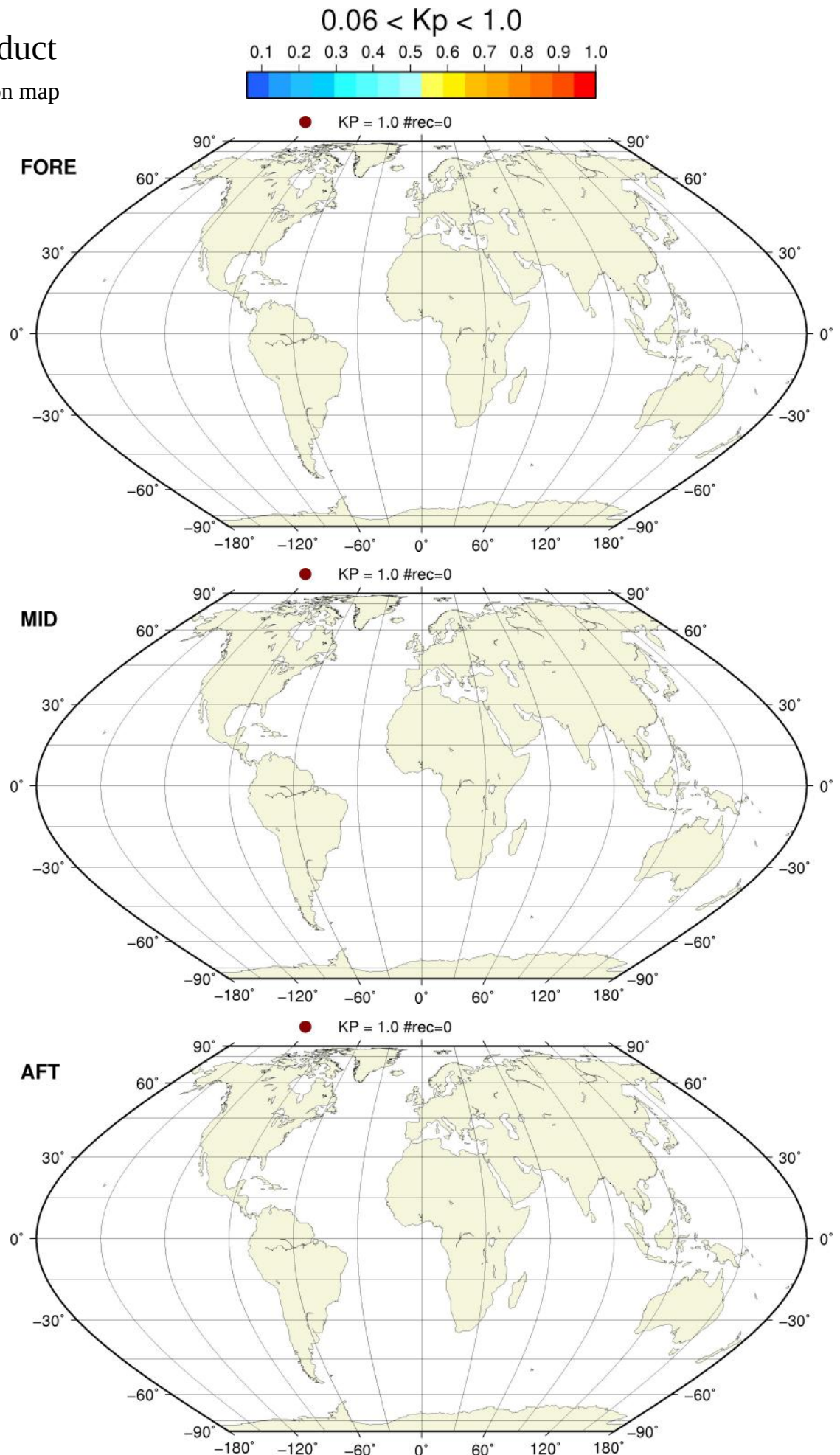
## SZR Product

### S0 - Kp Statistics



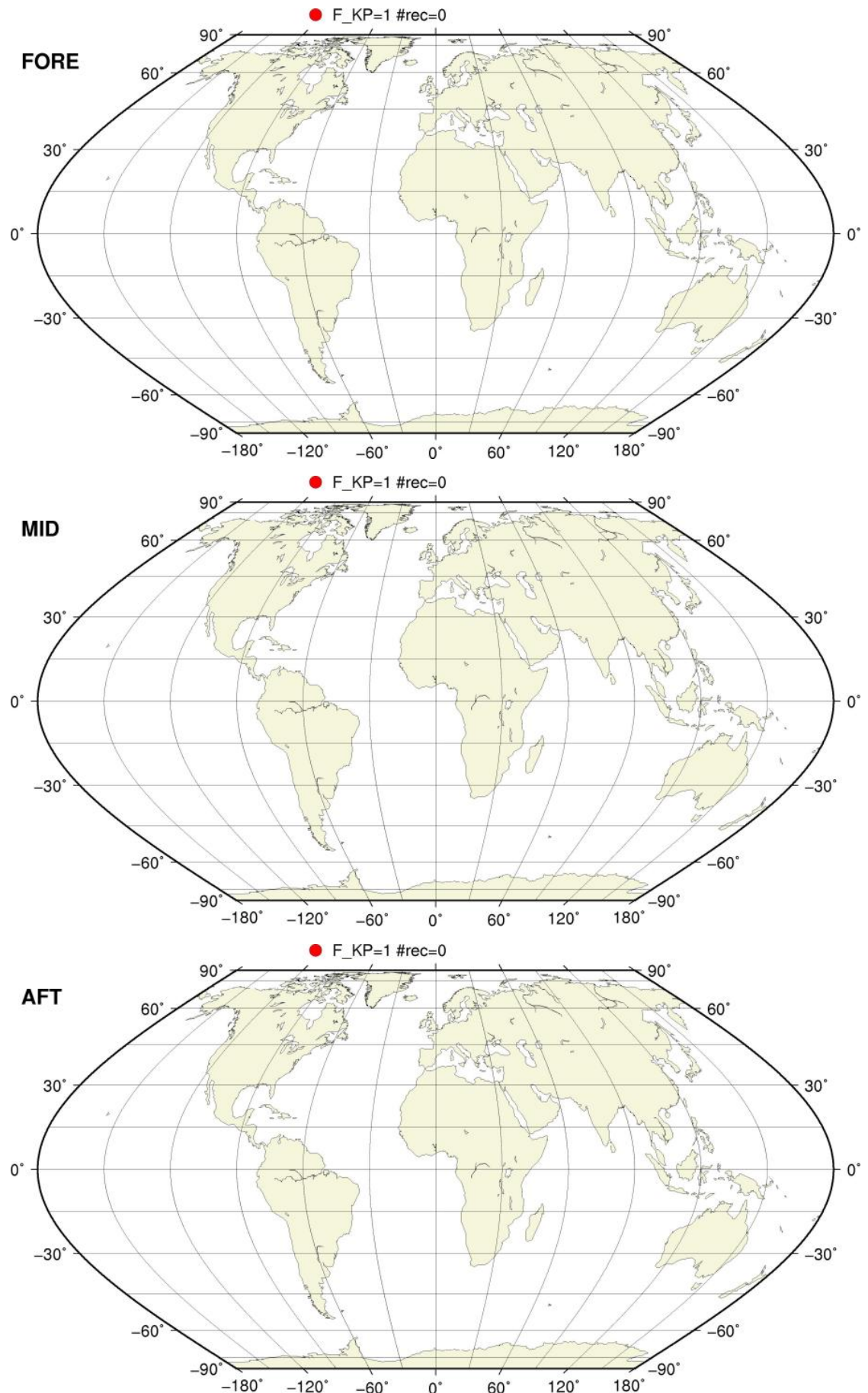
## SZR Product

Kp Outliers on map



## SZO Flagged Data Coverage

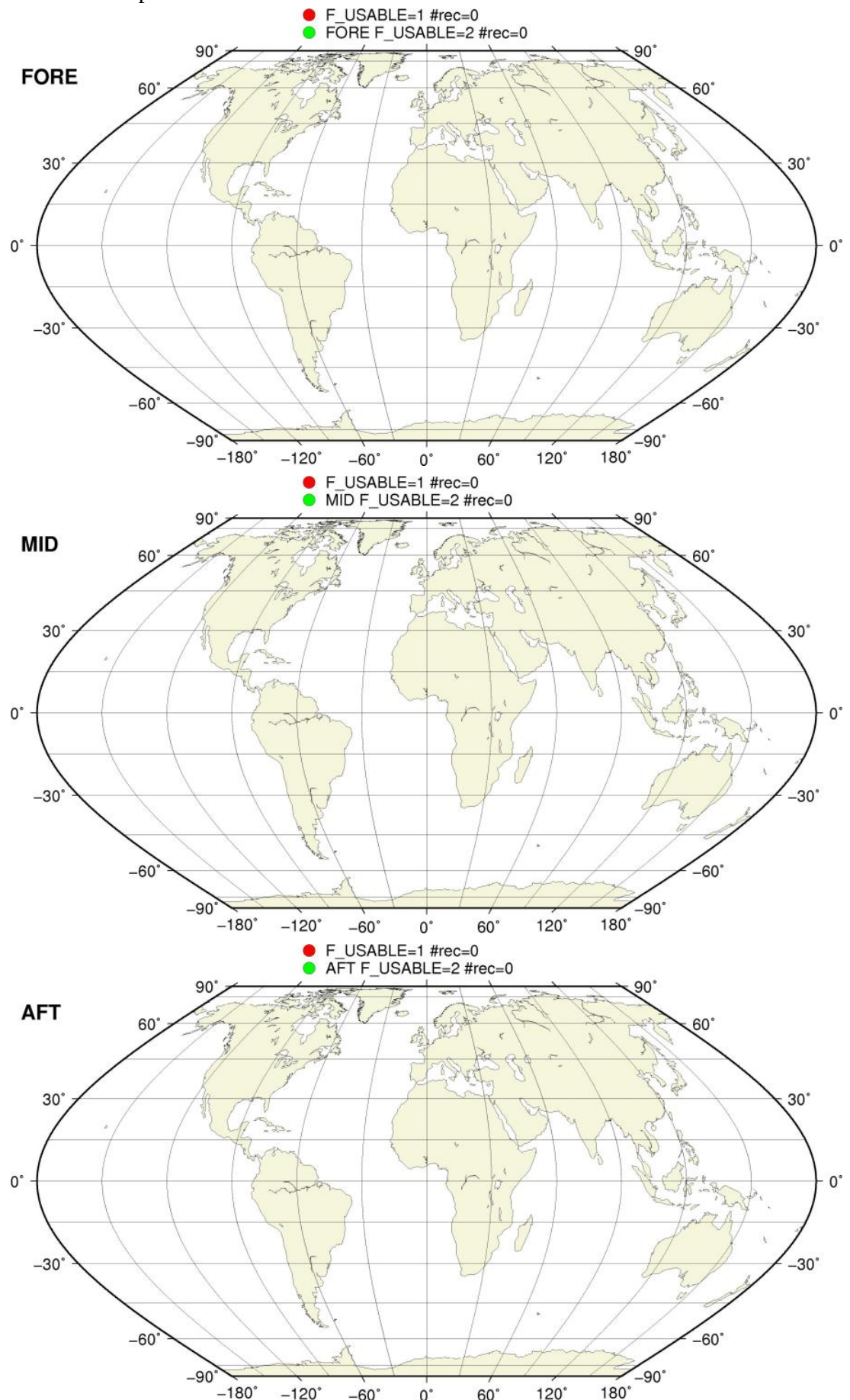
F\_KP = 1 on map





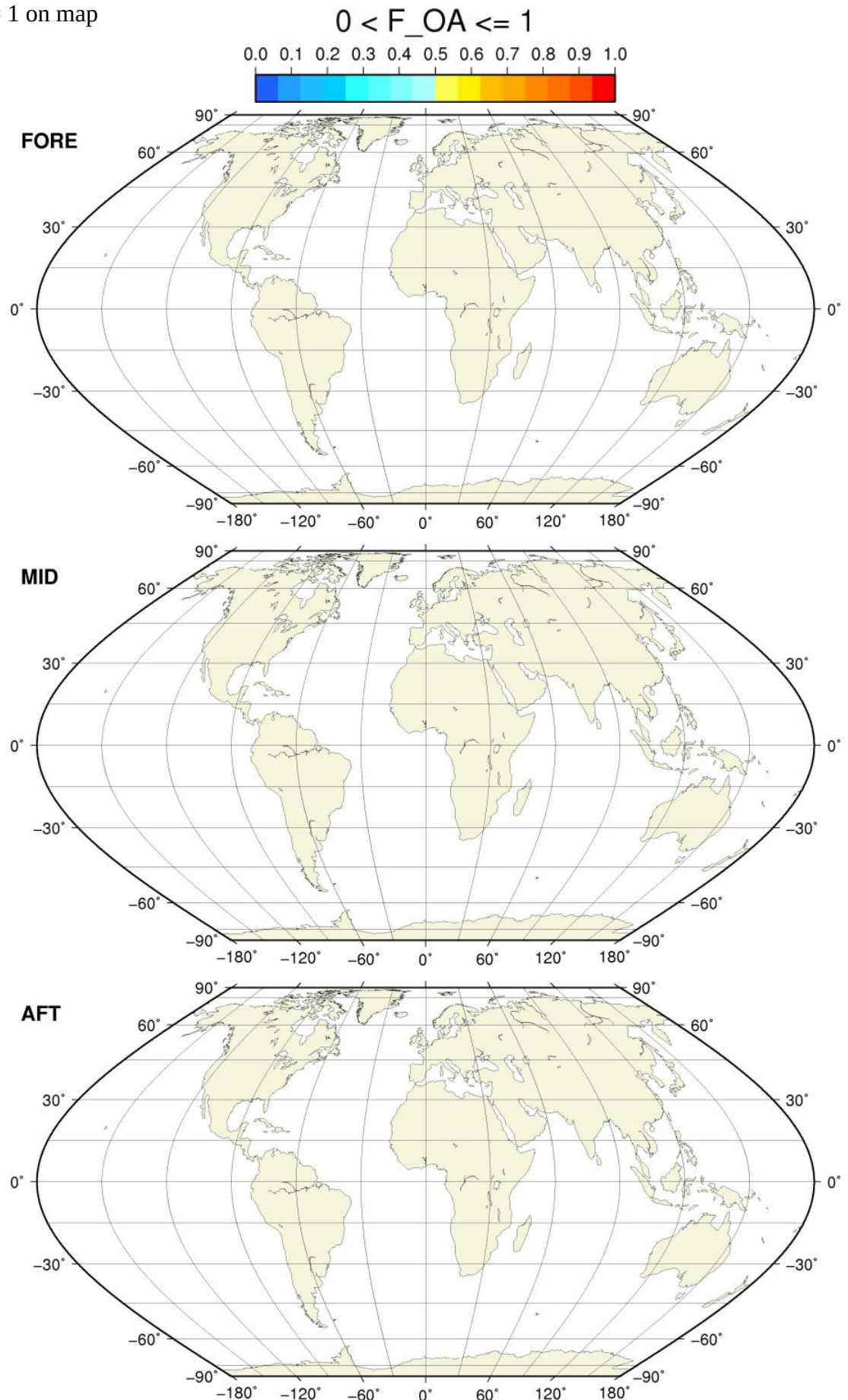
## SZO Flagged Data Coverage

F\_USABLE = 1 or 2 on map



## SZO Flagged Data Coverage

$0 < F_{OA} \leq 1$  on map





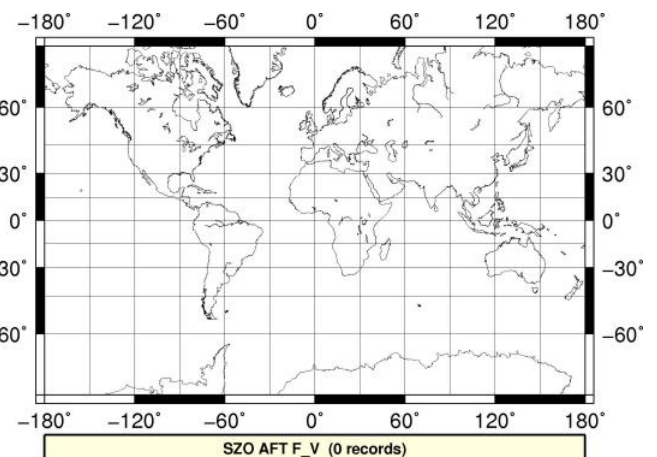
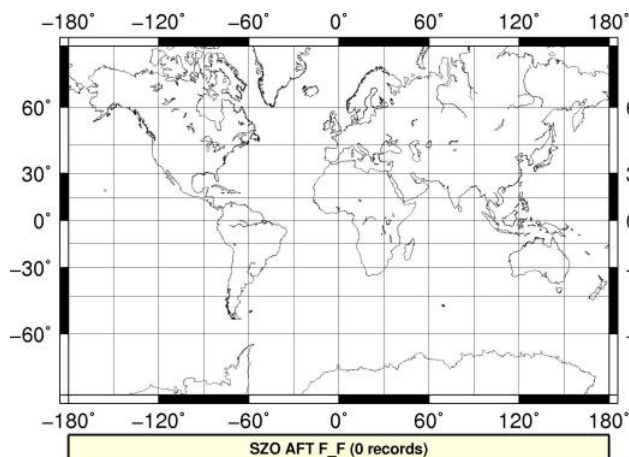
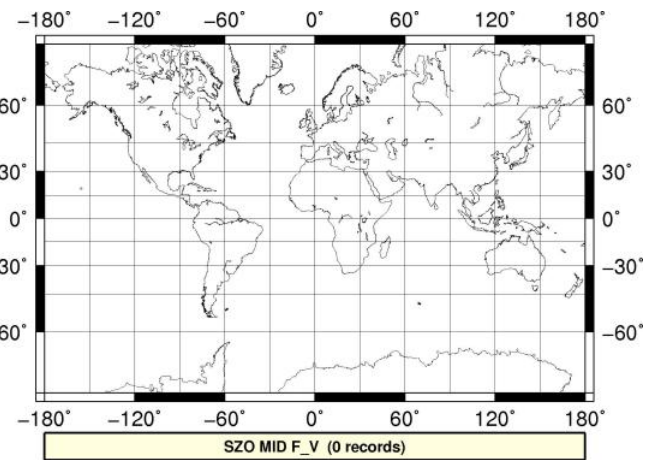
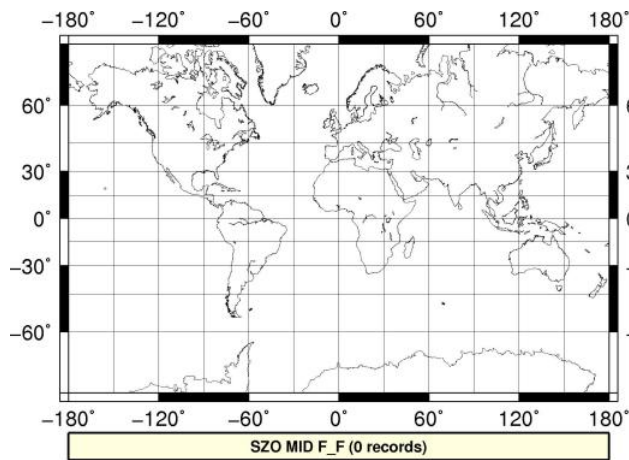
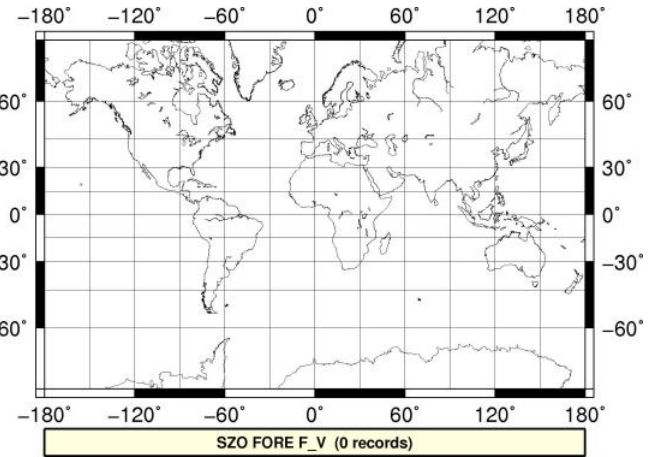
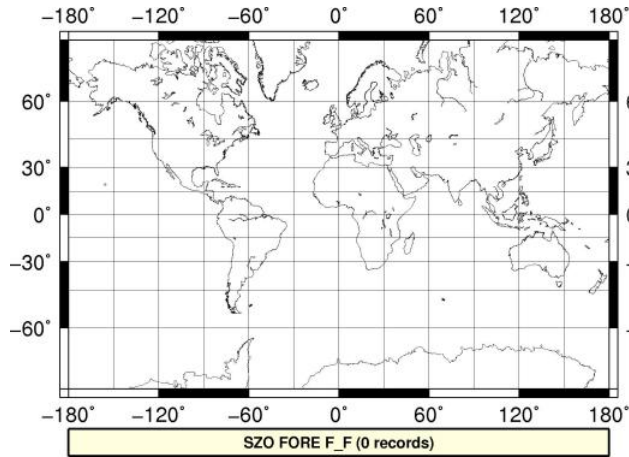
## SZO Flagged Data Coverage

$0 < F_{F/V} \leq 1$  on map

$0 < F_F \leq 1$

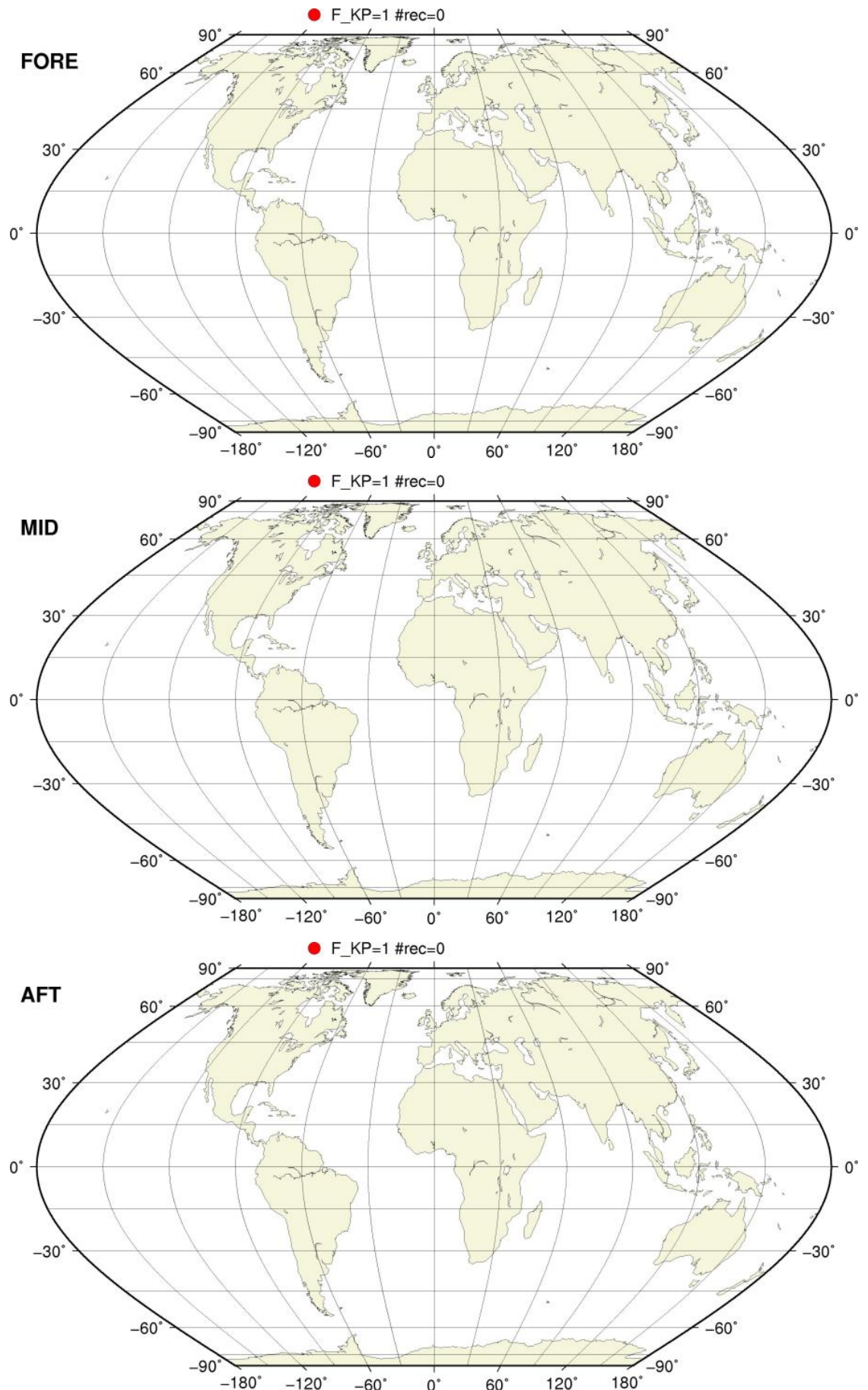


$0 < F_V \leq 1$



## SZR Flagged Data Coverage

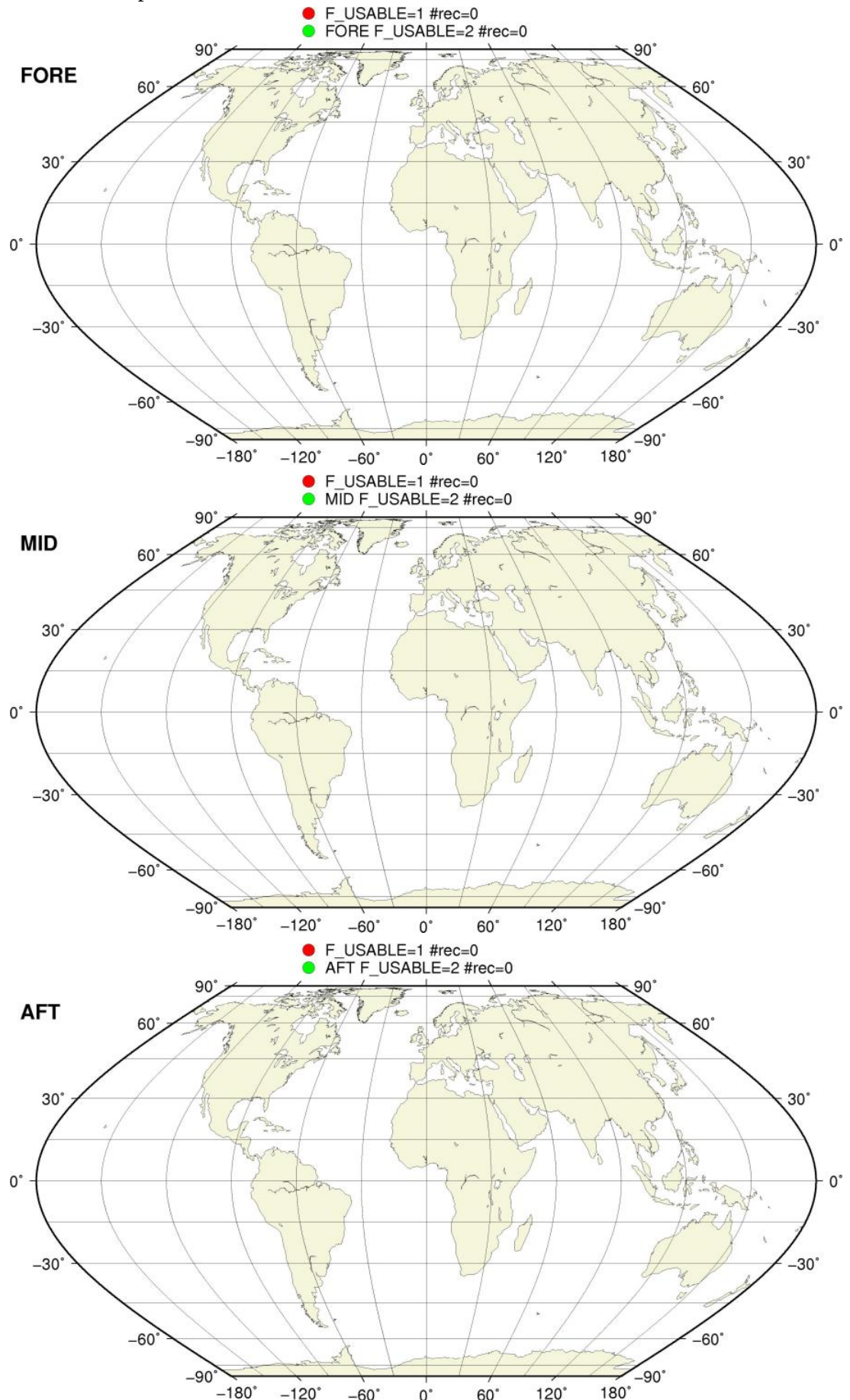
F\_KP = 1 on map





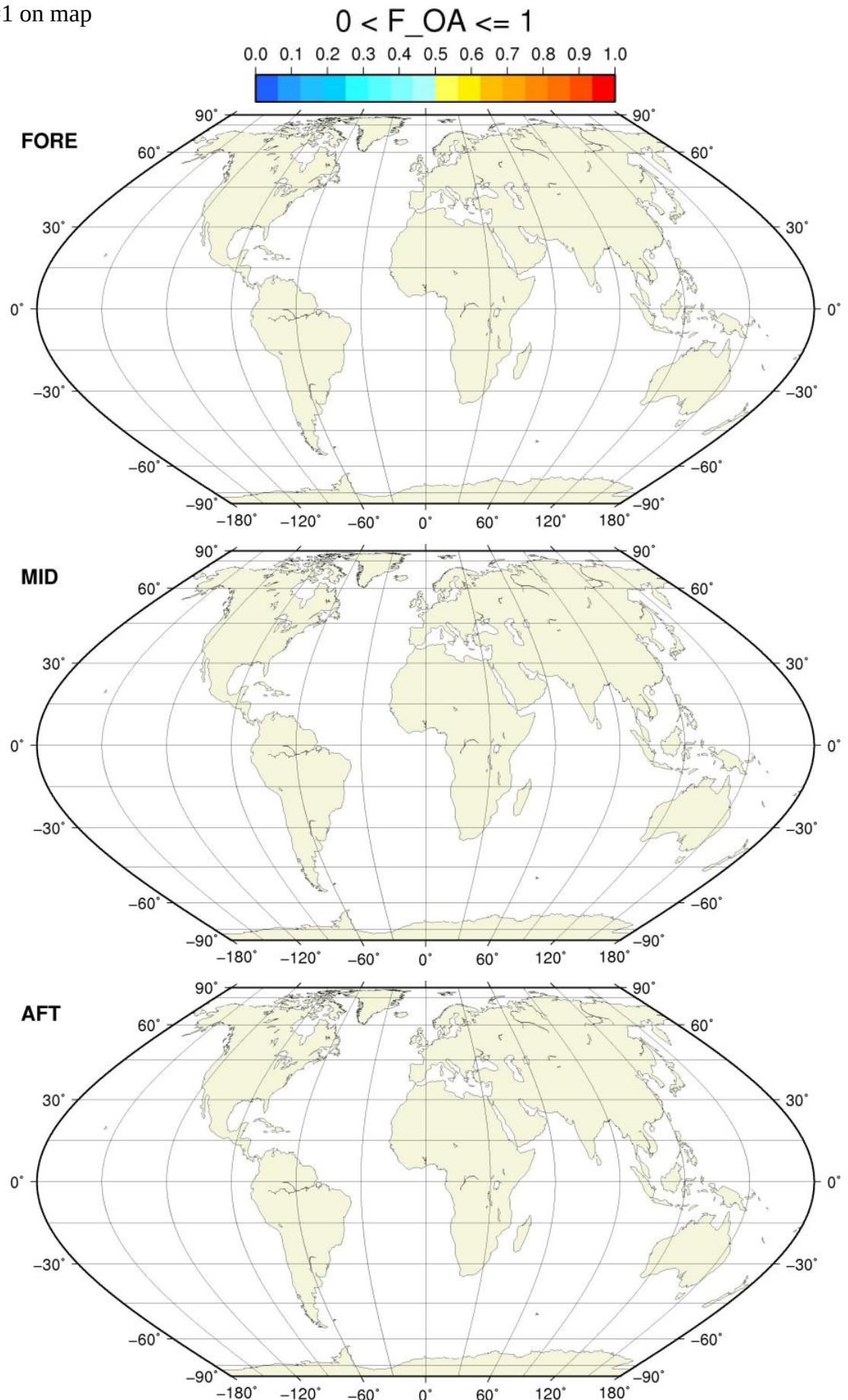
## SZR Flagged Data Coverage

F\_USABLE = 1 or 2 on map



## SZR Flagged Data Coverage

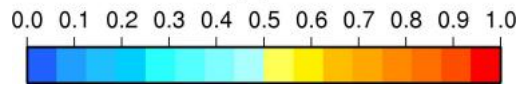
$0 < F_{OA} \leq 1$  on map



## SZR Flagged Data Coverage

$0 < F_{F/V} \leq 1$  on map

$0 < F_F \leq 1$



$0 < F_V \leq 1$

